

# *Project Baseline Summary Report*

Data Source: **EM CDB**

Operations/Field Office: **Carlsbad**

Site Summary Level: **Waste Isolation Pilot Plant**

Project **CAO-6 / WIPP TRU Waste Transportation Privatization**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0013**

---

## **General Project Information**

### **Project Description Narratives**

#### **Purpose, Scope, and Technical Approach:**

The methodology used for developing the scope of activities for privatizing a dedicated TRU waste transportation system was defined by Congress. Because the Congressional money is not intended to fully fund the projects, vendors will be required to fund the project start-up and re-coup their operating investment through the products they produce or services they render. DOE will begin reimbursing the vendor for their capital expenditures after services commence. This reimbursement will be amortized over a five year period and include escalation. Throughout this process, DOE does not purchase or have claim to ownership for any of the equipment or facilities. In the case of the TRU waste transportation system, the vendor will be responsible for all the transportation activities to meet the full throughput of the Waste Isolation Pilot Plant (WIPP). This includes purchasing and/or obtaining: 1) all additional NRC certified shipping containers, 2) all certified and equipped tractors, 3) hiring and training drivers, and 4) any equipment maintenance. All equipment currently owned by DOE will be supplied to the vendor as Government Furnished Equipment (GFE). The GFE will be used until additional resources can be obtained to help offset initial vendor expenditures.

Technical Approach: CAO released a Request for Proposal in FY1998 for all activities related to transporting CH-TRU waste from the TRU waste sites across the nation to WIPP. CAO will award the contract in early FY 2000. The private contractor will be operational on January 1, 2000. At that time, the vendor will be responsible for all CH- TRU waste shipping requirements. CAO will release a Request or Proposal for RH-TRU transportation in FY 1999, and plans to award a contract in FY 2000. DOE will schedule shipments from the TRU waste sites and coordinate with the vendors for shipping services. DOE will pay for only those services rendered.

#### **Project Status in FY 2006:**

By FY 2006, the vendors will be required to be at full operational status having a dedicated transportation fleet capable of delivering 17 shipments per week of CH TRU waste to WIPP and employing 15 RH TRU waste truck sets (one each tractor, trailer, and RH cask). The vendor will be required to maintain this fleet size through the operational life of WIPP regardless of Project Baseline Summary Case.

#### **Post-2006 Project Scope:**

Continued disposal of the remaining TRU waste inventory until the WIPP waste volume capacity reaches the statutory limits in FY 2034, after which five years are planned to seal the repository and dismantle and decommission the surface facilities. Active institutional controls will then be activated and maintained for 100 years.

Maintain dedicated transportation services through the operational life of WIPP.

#### **Project End State**

TRU waste management activities for both CH and RH waste are projected to be completed by FY 2039 after completing the Disposal Phase in FY 2034 and five years for decommissioning of the surface facilities and permanently closing the underground. In accordance with the WIPP Land Withdrawal Amendment Act of 1996, DOE will have disposed of 175,600 cubic meters of TRU waste in the WIPP facility. Starting in FY 2039, a reduced Federal staff and technical contractor support will maintain the active institutional controls associated with the land and records of the WIPP.

---

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

# *Project Baseline Summary Report*

Data Source: **EM CDB**

Operations/Field Office: **Carlsbad**

Site Summary Level: **Waste Isolation Pilot Plant**

Project **CAO-6 / WIPP TRU Waste Transportation Privatization**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0013**

---

## **Project Description Narratives**

Monuments and markers will be built at the site to warn people of the presence of the repository. Active institutional controls over the site will be maintained for 100 years. Low risk has been assigned based upon performance assessments included in the licensing of the facility, which requires no migration of hazardous or radioactive material for 10,000 years. Following completion of the active institutional control phase, the surface area will be unrestricted for recreational and agricultural uses.

After reaching the end of the WIPP operational life, the vendor will have the opportunity to use the formerly dedicated transportation resources for other waste shipments.

### **Cost Baseline Comments:**

The CAO has institutionalized a formal program planning and budget execution process. The confidence level of cost estimates for the next three years is very high (+/- 5%). Out year estimates through FY 2006 have been developed with a confidence level of +/- 10 to 20%. Estimates from FY 2007 through completion are within +/- 30%. There are no contingency funds included in the CAO estimates.

Current CAO assumptions support operations of the WIPP facility, including its infrastructure, as an operational nuclear facility capable of receiving CH TRU waste at an initial disposal at a rate of 5 shipments per week and ramping to 17 shipments per week. The CAO baseline provides adequate funding to support the National TRU Waste Management Program. Escalation has been applied to the activities in accordance with the DOE Environmental Management guidelines.

All funding associated with this project is for reimbursing the successful vendors' initial capital equipment expenditures associated with obtaining the shipping containers for TRU waste. DOE is not purchasing shipping containers with this money. Once the privatization contracts are let, DOE will not own equipment used to transport TRU waste. The shipping containers, tractors, and trailers will belong to the private vendors. DOE will only maintain the Certification of Compliance from the Nuclear Regulator Commission. DOE will only purchase transportation services, not equipment. For all other costs associated with this project, see Project CAO-3.

### **Safety & Health Hazards:**

S&H activities are addressed in CAO-1 and CAO-3

### **Safety & Health Work Performance:**

S&H activities are addressed in CAO-1 and CAO-3

### **PBS Comments:**

The CAO has recommended a management plan configuration for implementation that will guide the ten-year planning process consistent with the strategic objectives, as well as achieve the overall TRU waste management goals. The facilities and activities described in the National TRU Waste Management Plan, Revision 1, combined with the disposal-ready waste preparation schedules, summarize current guidance to support development of site 2006 Plan.

### **Baseline Validation Narrative:**

---

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Carlsbad**

Site Summary Level: **Waste Isolation Pilot Plant**

Project **CAO-6 / WIPP TRU Waste Transportation Privatization**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0013**

## Project Description Narratives

The National Research Council's report on the WIPP dated October, 1996, validated the project as a viable solution for the permanent, safe disposal of defense generated radioactive TRU waste. Mevatec Corporation contracted in FY 1998 to perform an independent baseline validation of the scope, schedule, and cost of the National TRU Waste Program managed by the Carlsbad Area Office (CAO). This validation and the final report was issued in April, 1999. The validation findings are consistent with this IPABS update. Information sources used in the CAO independent budget validation include, but are not limited to: Integrated Priority List Details for the FY 2000 Budget (CAO, March 1998); FY 2000/2001 Validation Submittals from CAO and TRU Waste Sites, CAO Technical Assistance Contractors (CTAC), Sandia National Labs (Vols. 1-2), and Westinghouse, WID (Vols. 1-6); Minutes of all FY 1999/2000 Validation and FY 2000-2006 Program Review Meetings; FY 2000 Validation and FY 2001-2006 Program Planning; IPABS Handbook, Rev 8; International Research and Development Plan, 1 October 1997, Rev. 0; CAO FY 2000/2001 Validation and FY 2002 through FY 2006 Planning Addendum; "Budget Planning, Programming & Execution Process Description - Draft"; and The National TRU Waste Management Plan, DOE/NTP-9691204, Rev. 1.

## General PBS Information

<b>Project Validated?</b>	Yes	<b>Date Validated:</b>	9/23/1996
<b>Has Headquarters reviewed and approved project?</b>	No		
<b>Date Project was Added:</b>	12/1/1997		
<b>Baseline Submission Date:</b>	7/7/1999		
<b>FEDPLAN Project?</b>	No		

<b>Drivers:</b>	<b>CERCLA</b>	<b>RCRA</b>	<b>DNFSB</b>	<b>AEA</b>	<b>UMTRCA</b>	<b>State</b>	<b>DOE Orders</b>	<b>Other</b>
	N	Y	Y	Y	N	Y	Y	Y

## Project Identification Information

<b>DOE Project Manager:</b>	Ines Triay
<b>DOE Project Manager Phone Number:</b>	505-234-7300
<b>DOE Project Manager Fax Number:</b>	505-234-7027
<b>DOE Project Manager e-mail address:</b>	triayi@wipp.carlsbad.nm.us
<b>Is this a High Visibility Project (Y/N):</b>	Y

## Planning Section

### Baseline Costs (in thousands of dollars)

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Carlsbad**

Print Date: **3/9/2000**

Site Summary Level: **Waste Isolation Pilot Plant**

HQ ID: **0013**

Project **CAO-6 / WIPP TRU Waste Transportation Privatization**

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (current year dollars)	40,605	0	40,605			21,000	21,000	19,605	0	0	0	0	0	0	0	
PBS Baseline (constant 1999 dollars)	40,605	0	40,605			21,000	21,000	19,605	0	0	0	0	0	0	0	
PBS EM Baseline (current year dollars)	40,605	0	40,605			21,000	21,000	19,605	0	0	0	0	0	0	0	
PBS EM Baseline (constant 1999 dollars)	40,605	0	40,605			21,000	21,000	19,605	0	0	0	0	0	0	0	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	0.00%	0.00%	2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070

Dataset Name: **FY 1999 Planning Data**

Page 4 of 6

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Carlsbad**

Site Summary Level: **Waste Isolation Pilot Plant**

Project **CAO-6 / WIPP TRU Waste Transportation Privatization**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0013**

2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

## Project Reconciliation

### Project Completion Date Changes:

Previously Projected End Date of Project: 9/1/2005

Current Projected End Date of Project: 9/1/2005

Explanation of Project Completion Date Difference (if applicable):

### Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	40,090	Actual 1997 Cost:	Actual 1998 Cost:	21,000
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	19,090	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):		515
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	19,605			

### Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):		
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	19,605	
Additional Amount to Reconcile (+):	0	
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	19,605	

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Carlsbad**

Site Summary Level: **Waste Isolation Pilot Plant**

Project **CAO-6 / WIPP TRU Waste Transportation Privatization**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0013**

## Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Project Mission Complete	CAO-006-003		9/1/2005								
RH Privatized Carrier Contracts	CAO-006-001		12/3/2001								Y
WIPP operational phase ends - carrier contracts terminate	CAO-006-004		9/1/2034								Y
Contract Award			7/15/1999						Y		
Begin Paths to Closure and Life Cycle Costs			10/1/1997								

## Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Project Mission Complete	CAO-006-003				Y						
RH Privatized Carrier Contracts	CAO-006-001										
WIPP operational phase ends - carrier contracts terminate	CAO-006-004										
Contract Award											Contract Award and contractor operationally ready. HQ's currently has procurement on hold.
Begin Paths to Closure and Life Cycle Costs				Y							Beginning of Paths to Closure and Life Cycle Costs

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Page 6 of 6